

# SmartOnline Expandable Rack / Tower UPS System - On-line, double-conversion protection for mission-critical applications

MODEL NUMBER: **SU7500RT3U1TF**

## Description

7,500 VA (7.5kVA) on-line, double-conversion UPS system for critical server, network and telecommunications equipment. Installs in only 8 rack spaces (3U power module, 3U battery pack and 2U step-down transformer). Maximum installed rack depth of 32.5 in. Expandable battery runtime with optional BP240V10RT3U and BP240V32 external battery packs. Full-time sine wave 208 and 120V +/-2% output. Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V. Standard 3-wire 208V hardwire input connection; NEMA L6-30R, L6-20R and Nema 5-15/20R output receptacles. Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without disrupting power to connected equipment. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support communications via RS-232, contact-closure port and optional SNMPWEBCARD slot. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC conversion, DC-to-AC conversion, bypass mode and output power status. LCD panel with scroll buttons offers detailed diagnostic test information on startup and during self tests, plus real-time data on input and output voltage, frequency (Hz), load percentage and battery charge level. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories and 2-9USTAND tower kit included; 2POSTRMKITWM two post rackmount hardware accessories available. Field replaceable, hot-swappable power module and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 connected equipment insur; extended warranty and service contracts available.

## Features

- 7,500 VA (7.5kVA) on-line, double-conversion UPS system (High voltage input/High AND low voltage output)
- Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without powering off connected equipment
- Installs in only 8 rack spaces (3U power module/3U battery pack/2U step-down transformer) with a maximum installed depth of 32.5 inches
- Offers 9 min. runtime at full load (7500VA/6000W) and 20 min. at half load (3750VA/3000W). Runtime is expandable with any number of optional BP240V10RT3U external battery packs
- Full-time sine wave 208V and simultaneous 120V +/-2% output
- Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output
- Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V
- Standard 3-wire 208V hardwire input connection
- 2 x NEMA L6-30R, 2 x L6-20R and 12 x 5-15/20R output receptacles
- Detailed LCD panel with scroll buttons offers detailed diagnostic test
- Network-grade AC surge and noise suppression
- Zero transfer time between AC and battery operation
- Includes slot for internal SNMP/web card, plus DB9 enhanced serial monitoring port, and contact closure port for unattended shutdown, remote control and monitoring of UPS system and power data
- Supports detailed monitoring of equipment load levels, self-test data and mains power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling
- Emergency Power Off (EPO) interface
- Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC & DC-to-AC conversion, bypass mode and output power status.

## Highlights

- 7500VA on-line 8U rack/tower UPS with expandable runtime (3U Power Module + 3U Battery Pack + 2U step-down transformer)
- Detachable PDU with manual bypass switch enables hot-swap UPS replacement without powering off connected loads
- Maintains 208V and simultaneous 120V output
- 2% output voltage regulation over an input voltage range of 156 to 276
- Enhanced serial communications ports, SNMP/Web Card Slot and EPO interfaces
- \$250,000 Ultimate Lifetime Insurance (USA & Canada only).

## Package Includes

- 3U power module with detachable hot-swap PDU input/output panel and bypass switch
- 3U external battery pack, 2U step-down transformer
- Three sets of 4 post rackmount rails (one for each of the 2U and 3U components)
- One set of tower stands for upright tower configuration
- PowerAlert software, complete data cabling, user manual with warranty information

- Fault-tolerant auto-bypass mode prevents loss of output during UPS fault conditions or excessive UPS loading
- 4 post rackmount and upright tower installation accessories included. 2POSTRMKITWM two post rackmount hardware accessories available
- Field replaceable, hot swappable power module and external battery packs
- Attractive all-black color scheme
- 2-year warranty: \$250,000 connected equipment insur
- Extended warranty and service contracts available

## Specifications

OVERVIEW	
UPC Code	037332127365
INPUT	
Input Phase	Single-Phase
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	Hardwire
Maximum Input Amps	208
Input Connection Type	Hardwire
Voltage Compatibility (VAC)	208; 120
OUTPUT	
Output Capacity (VA)	7500
Frequency Compatibility	50 / 60 Hz
Output (Watts)	6000
Output AC Waveform (Battery Mode)	Sine wave
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(2) L6-30R
Output Nominal Voltage	208V & 120V AC
Output Voltage Regulation	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 3% total harmonic distortion when used with computer loads
Output Frequency Regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Individually Controllable Load Banks	No
BATTERY	
Runtime Full Load (min.)	9 min.
Runtime Half Load (min.)	20 min.
Expandable Runtime	Yes

Expandable Runtime Description	Expandable with optional <a href="http://tripplite.eaton.com/external-240v-tower-battery-pack-tripp-lite-3-phase-ups-systems-3u~BP240V10RT3U">BP240V10RT3U</a> and BP240V32 external battery packs
DC System Voltage (VDC)	240
Battery Access	User replaceable, hot swappable external battery pack
Battery Pack Accessory (Optional)	<a href="http://tripplite.eaton.com/external-240v-tower-battery-pack-tripp-lite-3-phase-ups-systems-3u~BP240V10RT3U">BP240V10RT3U</a> , BP240V32
UPS Connection	Included 3 wire DC cable
Typical Battery Lifespan	4-6 years
Battery Charge	Less than 8 hours to 90% (included battery set only)
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	On-line, double-conversion process give this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 276V AC, regulating output within 2% of selected nominal
Brownout Correction	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156V AC, regulating output within 2% of selected nominal
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Front Panel LEDs	6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations.
Switches	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions
Audible Alarm	Multi-function audible alarm offers notification of UPS start, backup operation, low battery, overload, UPS fault, inverter fault, DC bus fault, overtemperature, remote shutdown, shutdown imminent and shutdown complete
<b>SURGE / NOISE SUPPRESSION</b>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Primary Form Factor	Tower
Material of Construction	Steel
Cooling Method	Fan
Form Factors Supported	Rack (8U)
Shipping Dimensions (hwd / in.)	49.25 x 23.00 x 31.50
Shipping Dimensions (hwd / cm)	125.10 x 58.42 x 80.01
Shipping Weight (lbs.)	402.16
Shipping Weight (kg)	182.42
Unit Dimensions (hwd / in.)	0.000 x 0.000 x 0.000
Unit Dimensions (hwd / cm)	Power Module 13.3 x 44.4 x 63.5, Battery Pack 13.4 x 40.6 x 63.5, Step down transformer 8.9 x 40.6 x 52.7 (Installed depth of power module extends to 82.6 cm once detachable PDU backplate is installed)



Powering Business Worldwide



Unit Weight (lbs.)	248.5
Unit Weight (kg)	112.72
<b>ENVIRONMENTAL</b>	
Relative Humidity	0 to 95%, non-condensing
Line Mode BTU / Hr. (max.)	2025 btu/hr. (91% efficiency line mode)
Battery Mode BTU / Hr. (max.)	2792 btu/hr. (88% efficiency battery mode)
<b>COMMUNICATIONS</b>	
Network Monitoring Port	Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure)
EPO Port	Includes dedicated EPO (emergency power off) interface and cabling
SNMP Compatibility	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
Communications Interface	DB9 Serial
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time (Line Power to Battery Mode)	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
Low Voltage Transfer to Battery Power	Maintains continuous operation during undervoltages as low as 156VAC. Below this point, output is maintained utilizing battery reserves.
High Voltage Transfer to Battery Power	Maintains continuous operation during overvoltages to 276V AC. Above this point, output is maintained utilizing battery reserves.
<b>FEATURES &amp; SPECIFICATIONS</b>	
Cold Start	Yes, inverter can be cold started to enable temporary AC output during a power failure
<b>APPLICATIONS</b>	
UPS Applications	Mission Critical Applications
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
Optional Coverage	3-year, 5-year, next-day and on-site warranty coverage available for select opportunities; contact Tripp Lite
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

1000 Eaton Boulevard  
 Cleveland, OH 44122  
 United States  
<https://tripplite.eaton.com>

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